S/N 09/779,754

PATENT

IN THE UNITED STAFFES PATENT AND TRADEMARK OFFICE

Applicant:

Jeffrey E. Stahmann et al.

Examiner:

Anuradha Ramana

Serial No.:

09/779,754

Group Art Unit:

3733

Filed:

February 08, 2001

Docket:

279.380US1

Title:

PACING AND SENSING VECTORS

INFORMATION DISCLOSURE STATEMENT

Mail Stop RCE Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

In compliance with the duty imposed by 37 C.F.R. § 1.56, and in accordance with 37 C.F.R. §§ 1.97 et. seq., the enclosed materials are brought to the attention of the Examiner for consideration in connection with the above-identified patent application. Applicants respectfully request that this Information Disclosure Statement be entered and the documents listed on the attached Form 1449 be considered by the Examiner and made of record. Pursuant to the provisions of MPEP 609, Applicants request that a copy of the 1449 form, initialed as being considered by the Examiner, be returned to the Applicants with the next official communication.

Pursuant to 37 C.F.R. §1.97(b), it is believed that no fee or statement is required with the Information Disclosure Statement. However, the Commissioner is hereby authorized to charge the required fees to Deposit Account No. 19-0743 in order to have this Information Disclosure Statement considered.

Filing Date: February 08, 2001

Title: PACING AND SENSING VECTORS

Dkt: 279.380US1

Pursuant to 37 C.F.R. 1.98(a)(2), Applicant believes that copies of cited U.S. Patents and Published Applications are no longer required to be provided to the Office. Notification of this change was provided in the United States Patent and Trademark Office OG Notices dated October 12, 2004. Thus, Applicant has not included copies of any US Patents or Published Applications cited with this submission. Should the Office require copies to be provided, Applicant respectfully requests that notice of such requirement be directed to Applicant's belowsigned representative. Applicant acknowledges the requirement to submit copies of foreign patent documents and non-patent literature in accordance with 37 C.F.R. 1.98(a)(2).

The Examiner is invited to contact the Applicants' Representative at the below-listed telephone number if there are any questions regarding this communication.

Respectfully submitted,

JEFFREY E. STAHMANN ET AL.

By their Representatives,

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January 18, 2006

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CERTIFICATE UNDER 37 CFR 1.8: The undersigned hereby certifies that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail, in an envelope addressed to: Mail Stop RCE, Commissioner for Patents, P.O. Box 1450,

Alexandria, VA 22313-1450, on this day of January, 2006.

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t the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless if contains a valid OMB control number. Substitute for form 1449A/PTO Complete if Known INFORMATION DISCLOSURE 09/779,754 **Application Number** STATEMENT BY APPLICANT (Use as many sheets as pecessry) February 8, 2001 Filing Date **First Named Inventor** Stahmann, Jeffrey 3733 **Group Art Unit** Ramana, Anuradha **Examiner Name** Attorney Docket No: 279.380US1 Sheet 1 of 2

US PATENT DOCUMENTS							
Examiner Initial *	USP Document Number	Publication Date	Name of Patentee or Applicant of cited Document	Filing Date If Appropriate			
	US-3,915,174	10/28/1975	Preston, Thomas A.	02/04/1974			
	US-4,745,923	05/24/1988	Winstrom, William L.	11/20/1985			
	US-4,819,661	04/11/1989	Heil Jr., Ronald W., et al.	10/26/1987			
	US-5,087,243	02/11/1992	Avitall, B.	06/18/1990			
	US-5,634,899	06/03/1997	Shapland, J. E., et al.	01/04/1994			
	US-5,800,464	09/01/1998	Kieval, Robert S.	10/03/1996			
	US-6,282,444	08/28/2001	Kroll, Mark W., et al.	08/31/1999			
	US-6,337,995	01/08/2002	Mower, Morton W.	11/13/2000			
	US-6,587,721	07/01/2003	Prutchi, David, et al.	11/04/1999			

FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Foreign Document No	Publication Date	Name of Patentee or Applicant of cited Document	T²			

	OTHE	R DOCUMENTS NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
		AGREN, M S., et al., "Collagenase During Burn Wound Healing: Influence of a	
		Hydrogel Dressing and Pulsed Electrical Stimulation", Plast. Reconstr. Surg., 94,	
		(1994),518-24	<u> </u>
		AKYUREKLI, Y, et al., "Myocardial Responses to Sutureless Epicardial Lead	
		Pacing", Proc. VIth World Symp. Cardiac Pacing, Montreal, Meere, C., ed.,	ł
		PACESSYMP, chap 33, number 3, (1979),	<u> </u>
		ALVAREZ, O M., et al., "The Healing of Superficial Skin Wounds is Stimulated	1
		by External Electric Current", J. Invest. Dermatol., 81, (1983),144-8	
		ASSIMACOPOULOS, A, et al., "Wound Healing Pomotion by the Use of	
		Negative Electric Current", Amer. Surg., 34, (1968),423-31	ļ
		BASSETT, C A., et al., "Effect of Electric Current on Bones", In vivo, Nature,	
		204, (1964),65204	
		BASSETT, C A., et al., "Noninvasive Methods for Stimulating Osteogenesis", J.	
		Biomed. Mater. Res , 9, (1975),3714	
		BOURGUIGNON, G J., et al., "Electric Stimulation of Proteins and DNA	
		Synthesis in Human Fibroblasts", FASEB J., 1, (1987),398-402	<u> </u>
		BURR, H S., et al., "Bio-electric Correlates of wound Healing", 11 Yale J. Biol,	
		(1938),103-7	
		CARLEY, P J., et al., "Electrotherapy for Acceleration of Wound Healing: Low	
		Intensity Direct Current", Arch. Phys. Med. Rehabil., 66, (1985),443-6	<u> </u>
-		CHAKKALAKAL, D A., et al., "Electrophysiology of DirecCurrent Stimulation of	
		Fracture Healing in Canine Radium", IEEE Trans. Biomed. Eng., 37,	
		(1990),1048-58	<u> </u>

EXAMINER

DATE CONSIDERED

PTO/SB/08A/10-01)
Approved for use through 10/31/2002 OMB 651-0031
US Patent & Tradement Office: U.S. DEPARTMENT OF COMMERCE
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	OTHE	R DOCUMENTS NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No ¹	include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
		DECAPRIO, V, et al., "A Comparison of Unipolar and Bipolar Electrograms os	
		Cardiac Pacemaker Sensing", Circ., 56, (1977),750-5	
		DUNN, M, et al., "Wound Healing using a Collagen Matrix: Effects of DC	
		Electrical Stimulation", J. Biomed. Mater. Res., 22, (1988),191-206	ļ
		JIANG, H, "Accelaration of Epidermis Proliferation by Direct Current	
		Stimulation", Chung Hua Cheng Hsing Shao Shang, 8, Abstract Only.,	
		(1992),136-8	ļ
		KAY, G N., "Cardiac Pacing, Practical Cardiac Diagnosis", 2nd ed., Ellenbogen,	
		K.A., ed., Balckwell Science, Cambridge, MA, (1996),62-65	
		KLOTH, L C., et al., "Acceleration of Wound Healing with High Voltage,	
		Monophasic, Pulsed Current, Physical Therapy, 68", (1988),503-8	
		KONIKOFF, J J., "Electrical Promotion of Soft Tissue Repairs", Ann. Biomed.	
		Eng. 4, (1976),1-5	1
		ROY, O Z., et al., "Electrical and Pathological Observations on the Response of the Canine Heart to Cardiac Pacing", <u>Br. J. Surg., 55</u> , (1968),861-2	
		SALMAN, N N., et al., "The Effect of Direct Electric Current Stimulation on the	
		Bone/Porous Metallic Implant Interface", Biometarials, 1, (1980),209-13	
		TOWNSEND, J F., et al., "Tissue and Electrode Changes in Chronic Cardiac	
		Pacing An Experimental Study", Vol. XI Trans. Amer. Soc. Artif. Int. Organs.	
		(1965),132-138	
		VARRIALE, P, et al., "The Ventricular Electrogram", Chap. 5 in Modern Cardiac	
		Pacing, S.S. Barold, ed., Futura Publ. Co., Mount Kisco, NY, (1985),	
		WEISS, D.S., et al., "Exogenous Electric Current can Reduce the Formation of	
]	Hypertrophic Scars", J. Dermatol Surg. Oncol, 15, (1989),1272-5	

EXAMINER DATE CONSIDERED